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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/000,349	12/04/2001	Shigekazu Nagai	CS-49-011204	9728	
22712 75	90 02/06/2003				
PAUL A. GUSS			EXAMINER		
775 S 23RD ST	S ATTORNEY AT LAW FIRST FLOOR SUITE 2		STEFANOI	STEFANON, JUSTIN	
ARLINGTON, VA 22202			ART UNIT	PAPER NUMBER	
			3682	· · · · · · · · · · · · · · · · · · ·	
			DATE MAILED: 02/06/2003	DATE MAILED: 02/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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**	Application No.	Applicant(s)	_			
	10/000,349	NAGAI ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	Justin Stefanon	3682				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	1. 1.136(a). In no event, however, may ply within the statutory minimum of to d will apply and will expire SIX (6) M ute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 04	<u> 1 December 2001</u> .					
,	This action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application	on					
4a) Of the above claim(s) is/are withdr						
5) Claim(s) is/are allowed.	awii ii oiii consideration.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.	· · · ——					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	/or election requirement					
Application Papers	, or oroston roquilonion.					
9)☐ The specification is objected to by the Examir	ner.					
10)⊠ The drawing(s) filed on <u>04 December 2001</u> is	/are: a)□ accepted or b)⊠	objected to by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abo	eyance. See 37 CFR 1.85(a).				
11)☐ The proposed drawing correction filed on	is: a) approved b)	disapproved by the Examiner.				
If approved, corrected drawings are required in	reply to this Office action.					
12) The oath or declaration is objected to by the E	Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C	s. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority docume 	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority docume.	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the prince application from the International E * See the attached detailed Office action for a list 	Bureau (PCT Rule 17.2(a)).				
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.0	C. § 119(e) (to a provisional application).				
 a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome 	• •					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

Drawings

1. Figures 12 and 13 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 2-4 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2, 3, and 4 recite the limitation "said feed screw shaft mechanism being assembled into a a single unit" in lines 7-8 of each claim. This limitation has already been claimed in lines 5-6 of claim 1. The single unit of claims 2-4 is the same as the single unit of claim 1, and should be distinctly claimed as such.

Claim 6 recites the limitations "said plate, said cover, and said return guide" in lines 4-5 and again on lines 7-8. There is insufficient antecedent basis for this limitation in the claim. The antecedent refers to "plates..covers..and return guides." In lines 4-5, the phrase "and said plate, said cover, and said return guide, which are disposed on one side" should be replaced with –and those of said plates, said covers, and said

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return guides[,] which are disposed on one side--. In lines 7-8, the phrase "those of said plate, said cover, and said return guide which are disposed on other side" should be replaced with --those of said plates, said covers, and said return guides which are disposed on another side--.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat. No 5,484,051 to Nagai et al.

Nagai et al. disclose an actuator comprising: a frame; 16 a feed screw shaft 38 and nut 52; a slider 50 having an opening which extends in an axial direction and defines a U-shaped inner surface; a guide mechanism 22, 24, 56a, 56b; and a rotary driving source. Said feed screw nut has a penetrating screw hole and a cylindrical section, the feed screw shaft mechanism including a bearing holding member 54, a bearing mechanism 58a, 548b, a housing 34 for supporting said rotary driving source, and an end plate 26. The feed screw nut has a pair of flange sections fixed to a side surface of the slider, as seen in Figures 2 and 3. The guide mechanism includes plates 46, covers 48 which are connected to said slider, and return guides 22, 24 which are installed to side surfaces of said slider, and those of said plates, said covers, and said return guides which are disposed on one side in an axial direction of said slider, are

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composed of the same constitutive components as those of said plates, said covers, and said return guides which are disposed on another side in said axial direction of said slider. The slider has a rectangular hole, at the top of the U-shaped inner surface which penetrates from said opening to said frame. A sensor, disclosed in columns 4-5 lines 64-2, is attached to one side surface on an outer side of said frame with an attachment member, i.e. via the guide mechanism, and detects an object, i.e. the motor housing 34, which is displaceable in unison with said slider.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art includes several actuators with sliders having U-shaped inner surfaces and with sensors mounted in various positions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Stefanon whose telephone number is 703-305-1945. The examiner can normally be reached on Monday - Thursday 6 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on 703-308-3668. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9326 for regular communications and 703-872-9327 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

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February 5, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600

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